Iowa Department of Natural Resources
Environmental Protection Commission

ITEM **12** **DECISION**

TOPIC **Contract – Iowa State University for Development of SWAT hydrologic parameters for specific Iowa landform regions**

Recommendations:
Commission approval is requested for a one year-service contract with Iowa State University of Ames, IA. The contract will begin on April 1, 2009 and terminate on November 30, 2009. The total amount of this contract shall not exceed 65,421.00. DNR shall have the option to renew this contract long as this contract and any extensions do not exceed a six-year period.

Funding Source:
This contract will be funded through federal EPA Section 104(b)(3) TMDL Grant Agreement No. X7977026 01.

Background:
The project was developed in response to a solicitation from Region VII US EPA calling for proposal to improve TMDL develop in the region. In accordance with the federal Clean Water Act, DNR must prepare TMDLs for any and all waterbodies that have been placed on the state's impaired waters list (section 303(d) list). By completing this project DNR will be better able to perform more accurate modeling of pollutant loads within watersheds for impaired waterbodies.

Purpose:
The parties propose to enter into this Contract for the purpose of retaining Iowa State University to provide data and programming support including i_SWAT software, SWAT modeling; calibration and validation processes; and data identification and processing; in support of DNR's Section 104(b)(3) TMDL grant from Region VII of the US Environmental Protection Agency for the development of SWAT hydrologic paramenters for specific Iowa landform regions.

Contractor Selection Process:
Iowa State University was chosen for this project because staff from the Center for Agricultural and Rural Development (CARD) at ISU were proposed to EPA, and are serving, as co-principal investigators for this study.

The DNR is allowed to contract with Iowa State University without using a competitive selection process pursuant to state law.

Keith Schilling
Geologist 3
DNR - Geological Survey Bureau
March 17, 2009

Attachment(s): Special Conditions for Contract 09-7342-01

Section 5 STATEMENT OF WORK

5.1 Statement of Work. ISU shall be responsible to perform the following tasks as described by the Task Milestone Dates set out in the following table:

Obligation	Task Milestone Date
Task 1: **Watershed Identification and Data Collection** Support and refine work conducted by the Iowa Geological Survey to identify appropriate watersheds within each ecoregion, collecting and processing necessary data to create each watershed model and development of watershed models.	No later than July 1, 2009
Task 2: **Software and Technical Support** The contractor shall provide data and programming support including i_SWAT software.	No later than November 30, 2009
Task 3: **SWAT Modeling, Calibration and Validation** The contractor shall, in conjunction with DNR staff, conduct SWAT model calibration and validation as outlined in the QAPP approved for this project, and through this process identify appropriate hydrologic parameter values and/or ranges correlated to Iowa Landform Regions.	No later than November 30, 2009
Task 4: **Final Document Preparation** The contractor shall, in conjunction with IDNR staff, document methodology used to develop region specific input parameters for distribution to EPA region 7 states. This documentation will serve as an instructional guide allowing other states to develop landform region specific parameters.	No later than November 30, 2009

All tasks identified above shall be completed in conformance with the work plan, the quality assurance project plan (QAPP), and other requirements articulated in the grant proposal, Development of SWAT Hydrologic Parameters for Specific Iowa Landform Regions for Grant Solicitation Number EPA-WWPD-08-005, and the grant award of the same name issued December 4, 2008, both of which are incorporated by this reference. To the extent that there is disagreement between this contract and those incorporated documents, the terms of this contract shall control.